

QP CODE: 26019252



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Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc BIOINFORMATICS

ELECTIVE - BT810403 - RESEARCH METHODOLOGY & SCIENTIFIC WRITING

2019 Admission Onwards

EB003168

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What is the difference between quantitative and qualitative research?
2. Differentiate between independent and dependent variables.
3. How do you edit and code data?
4. What is meant by interpretation of results?
5. What are the different phases in survey method?
6. Define census and sample survey.
7. Write a short note on Fisher's t-test.
8. Write a short note on basics in science grammar.
9. Write a short note on abbreviations and acronyms in science.
10. Explain different types of scientific writings.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Briefly describe the different steps involved in a research process.
12. Write in detail about research design and its rationale.
13. The hypothesis setting is the most important part of a research. Justify this statement.
14. What is a schedule? How can you differentiate from the questionnaire?





15. Describe the methods used for representation of data.
16. Write a note on bibliographic citations and footnotes.
17. Write about hypothesis testing and the level of significance.
18. What all are the sources that can be used for the preparation of critical review of literature?

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. Outline the major features of ex post facto research. Discuss about it with respect to other types of research.
20. Comment on the following statement “The task of defining the research problem often follows a sequential pattern”.
21. Outline the different types of diagrams or graphs? What are the general rules for these diagrams?
22. Construction of diagrams and graphs.

(2×5=10 weightage)

